

Receiving Report

Date: B-8-23

Batch No: 126689

Supplier: Metal Castle

Dart P/O: 20939

Packing Slip: Yes No
 Invoice: Yes No
 Receipt: Cash Cr

Release Note Attached: Yes No N/A
 Waybill Attached: Yes No N/A
 Shipment Complete: Yes No N/A
 QC6 Inspection: Jan 308-23 N/A
 Work Order N/A
Jan 308-23

Discrepancies

Part Number	Description	Quantity Desired	Quantity Received	Quantity Returned	Quantity Short	Comments
M303B0.750X1.500	303 Bar 750"X1.500"	12 X	12		12	
M303B2.000	303 Bar 2"X1.750"	7 X	7		12 X	

Initials of receiver (if shipment OK) Level 12 SP

Production/Admin:

Date 13-8-23

Received/Costing:

Initial SP

Location



A. M. Castle & Co.

PACKING SLIP/
CERTIFICATE OF CONFORMANCE

Page 1 of 1

Shipment No:1859559

Ship From:	Sold To:	Ship To:	Deliver To:
A. M. Castle & Co. MONTREAL - CASTLE METALS 835-SELKIRK AVENUE POINTE CLAIRE, QUEBEC H9R 3S2	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN CA	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA

Date Shipped	F.O.B.	Freight Terms	Carrier	BOL No
22-AUG-2013	ORIGIN	Prepaid	MANITOULIN	1859559-2

Shipment Details

Final Destination Branch - MON

Order No	Line No	Item No	Description
2995892	2	23970	1.0000.RD.17CR-4NI.STAINLESS.CF.H1150.132.0000-156.0000 SPECIFICATIONS: AMS 5643 Email P/s and Certs to : clavoie@dartaero.com

Details

ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY
ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #S

FORWARD COPY OF P/S TO TRACY (MONTREAL)

Email P/s and certs to: clavoie@dartaero.com

END USER: DART AEROSPACE

END USE: COMMERCIAL AIRCRAFT PARTS

ECCN # EAR99

John B. S. 23

Delivery No.	Mill	Heat Number	Mech Id	PCS	Width (IN)	Length (IN)	Shipped Qty(LBS)
119063912	OUTOKUMPU STAINLESS INC.	G18959		1	138.0000	30.7050	

These commodities/technologies are subject to US Export Administration & US State Dept. Regulations and, if intended for export, were/are exported thereunder. Diversion contrary to US law is prohibited.

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned to credit.

Reviewed by Authorized Castle Metals Representative:

Date: Name:

These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to US law prohibited.

Date Printed: 22-AUG-2013 11:30:00 AM

Castle Metals FP

HEAT NUMBER G18959
MECHANICAL ID _____
ITEM CODE 23970
LOT NUMBER _____
PO NUMBER 147459
RECEIPT DATE 6-26-12
SUPPLIER OUTOKUMPU
SPECIFICATION _____
LCS 10
COMMENT _____
APPROVED DL

Zay
7308-23

OUTO
KUMPU

Certificate of Test

HEAT G18959 ORDER 627435/ 04 BOL 0217841 * CERTIFICATION * 06/21/12

SHIP TO:
A. M. CASTLE METALS
3400 NORTH WOLF ROAD

FRANKLIN PARK 601310000

----- YOUR ORDER & DATE -----
147459 6/21/12 CUST# 0254001 CUST TAG#23970

----- ITEM DESCRIPTION -----
GRADE 17-4 Ship Condition H1150
Size 17-4 RND CFA H1150 1.0000 x 144.000 RL
Country of Melt: UNITED STATES Country of Mfg.: UNITED STATES
NAFTA Country of Origin is Country of Melt

No weld repair
Free of mercury contamination, Free of radiation contamination
NO WEEE relevant substances; Meets EU electrical ROHS

Total Bundles 1 Total Weight 3018

WO 2031141 Bundles: 1C

SPECIFICATIONS

THE PRODUCTS LISTED ON THIS MILL TEST REPORT SATISFY PREFERENCE CRITERION B
AS DEFINED IN ARTICLE 401 OF THE NORTH AMERICAN FREE TRADE AGREEMENT.
AMS 2303F UNS S17400, AISI 630
ASME SA564 E10 Alla ASTM A484 11
ASTM A564 10 Type 630 DFARS 252.225.7009 10/4/11
AM Castle 3174-04 R31 Sol Ann 1900F/1Hr/Rapid Cool
Aged at 1150F for 4 hr, AC AMS 5643R Chemistry

MECHANICAL & OTHER TESTS

Hardness as shipped	327	HB	
Hardness as shipped	035	HRC	
Grain size	6.0		Tensile strength, KSI (MPa) 150.0 (1034)
Micro	OK		0.2% Yield Strngth, KSI (MPa) 132.0 (910)
Intergranular corrosion			
Macro	OK		Elongation % in 4D 18.0
			Reduction of area % 59.0
			Charpy (ft lb) 92 100 104 Avg 98
			Charpy Test Temperature RT
Ferrite	1.0		Lateral Exp (mils) 43 50 52 Avg 48

CHEMICAL COMPOSITION

Carbon (C)	.026	Manganese (Mn)	.810
Phosphorus (P)	.020	Sulphur (S)	.028
Silicon (Si)	.430	Chromium (Cr)	15.390
Nickel (Ni)	4.280	Cobalt (Co)	.050
Copper (Cu)	3.800	Moly (Mo)	.260
Nitrogen (N)	.034	Columbium (Cb)	.250
Titanium (Ti)	.010	Aluminum (Al)	.010
Tin (Sn)	.010	Boron (B)	.001
Tantalum (Ta)	.010	Vanadium (V)	.070
Tungstem (W)	.050		.000
Columbium/			
Tantalum (Cb+Ta)	.260		
Iron (Fe)	Balance	Severity	.000
Frequency	.000		
Melt Practice	EAF		
Refining Practice	AOD		
De-long Ferrite			

Knowingly & willfully falsifying or concealing a material act on this form,
or making false, fictitious or fraudulent statements or representations
herein could constitute a felony punishable under federal statutes.

We hereby certify that the test results shown in this report are correct and
accurate as contained in the records of the company and are in compliance
with the specifications, codes, and standards listed above.

M. F. Marcanio, Quality Manager

MF Marcanio



Castle Metals®

A. M. Castle & Co.

**PACKING SLIP/
CERTIFICATE OF CONFORMANCE**

Shipment No:1859559
Page 1 of 1

Ship From:	Sold To:	Ship To:	Deliver To:				
A. M. Castle & Co. MONTREAL - CASTLE METALS 835-SELKIRK AVENUE POINTE CLAIRE, QUEBEC H9R 3S2	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A CA	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA				
Date Shipped	F.O.B.	Freight Terms	Carrier				
22-AUG-2013	ORIGIN	Prepaid	MANITOULIN				
Shipment Details	Final Destination Branch - MON						
Order No	Line No	Item No	Description				
2995892	1	14154	0.5000.RD.303.STAINLESS.CF.ANN.132.0000-156.0000 SPECIFICATIONS: ASTM A582 Email P/s and Certs to : clavoie@dartaero.com				
Purchase Order No	Part Number	Ordered Qty	Invoice Qty				
20939		60.00 FT	60.4167 FT				
Details ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #S FORWARD COPY OF P/S TO TRACY (MONTREAL) Email P/s and certs to: clavoie@dartaero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS ECCN # EAR99							
Delivery No.	Mill	Heat Number	Mech Id	PCS	Width (IN)	Length (IN)	Shipped Qty(LBS)
119063912	NORTH AMERICAN STAINLESS	F9B4	5		145.0000	40.3583	

These commodities/technologies are subject to US Export Administration & US State Dept. Regulations and, if intended for export, were/dare exported thereunder. Diversion contrary to US law is Prohibited.

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.

Reviewed by: Authorized Castle Metals Representative.

Date Printed: 22-AUG-2013 11:30:00 AM



NORTH AMERICAN
STAINLESS

METALLURGICAL TEST REPORT

6870 Highway 42 East
Glen, KY 41045-9615
(502) 347-6000

Certificate: 824462 15 Mail to:

A.M. CASTLE AND COMPANY

1420 KENSINGTON ROAD-SUITE 220

OAK BROOK

IL 60523

Customer: 0032 001 LN 96407 1

NAS Order: 212757

Your Order: 212757

Item Code: 14154

PRODUCT DESCRIPTION:

Round Bar, Annealed, Cold Draw
ASTM A583/12 EN 10204 3.1, ASTM A484/11
AMS 56400 TITE 1, QDS-764B CONDITION A
SOLUTION ANNEAL TEMP 1900°F MIN

1" W 16" H
1" M 10" H

Ship To:

A.M. CASTLE AND COMPANY

3400 NORTH WOLF ROAD

FRANKLIN PARK IL 60131

Leg Length:

Length: 144.00 in

Corrosion:

REMARKS:

COMPLIES W/ REQUIREMENTS OF DPAIR 252-225-70144-1 EU DIRECTIVE
2011/65/EU: ROHS, EAR+MDD+CR. NO WELD, REPAIR, MELTED AND MFG
IN USA. FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

CHEMICAL ANALYSIS CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan) Chemical Analysis per ASTM A751/08

Heat	Supplier #	CM	C %	CO %	CR %	CU %	MM %	MO %	N %	NI %	P %	S %
F9B4		US	.050	.11	17.22	.35	1.83	.26	.052	8.47	.031	.3200

SI %

Castle Metals FP

HEAT NUMBER

F9B4

MECHANICAL ID

F9B4

TEST ID

F9B4

TEST NO.

F9B4

TEST NO.

F9B4

TEST NO.

F9B4

TEST NO.

F9B4

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy
of the test methods used, the material meets the specifications stated. These results relate only to the items
tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS

COMMENT

APPROVED

Technical

Dept. Mgr.

ERIC HESS



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO20939**

Purchase Order Date 8/15/2013

PO Print Date 8/15/2013

Page Number 1 of 2

Order From : VC-MET001
METAUX CASTLE
A.M. CASTLE & CO. (CANADA) INC. - C/O 910720
P.O. BOX 4090 STN A
TORONTO, ON M5W 0E9
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

FAXED
(07/13/2013)

Contact Name
Vendor Phone 514 694 9575
Ship To Contact
Ship To Phone
Ship Via: Yours ppd
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB Destination-Collect

Line Nbr	Reference Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
Line Comments			Promise Date				
Delivery Comments							
1	M174PH-H1150R1.000	17-4 SS H1150 ROUND BAR 1.000	8/30/2013 Yes 8/30/2013		12.00 f	\$19.06	\$228.72
		MATERIAL: 17-4 PH CONDITION H1150 GRAIN MUST BE ALONG LENGTH OF BAR				8/13-8-23	
						Line Total:	\$228.72
2	M303B0.750X1.500	303 BAR .750" X 1.500"	8/30/2013 Yes 8/30/2013		12.00 f	\$50.97	\$611.64
		MATERIAL: AISI 303 SS BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE				8/13-8-23	
						Line Total:	\$611.64

Note:



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO20939**

Purchase Order Date 8/15/2013

PO Print Date 8/15/2013

Page Number 2 of 2

Order From : VC-MET001
METAUX CASTLE
A.M. CASTLE & CO. (CANADA) INC. - C/O 910720
P.O. BOX 4090 STN A
TORONTO, ON M5W 0E9
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 514 694 9575

Ship To Contact
Ship To Phone
Ship Via: Yours ppd
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB Destination-Collect

3	M303B2.000X1.750	303 BAR 2" X 1.750"	8/30/2013	12.00	\$94.18	\$1,130.16
			Yes	f		
			8/30/2013			

MATERIAL: AISI 303 SS BAR AS PER ASTM A582
NOTE: AISI 304/316 NOT ACCEPTABLE

4	M303R0.500	303 Round Bar 0.500"	8/30/2013	60.00	\$1.81	\$108.60
			Yes	f		
			8/30/2013			

MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582
NOTE: 304/316 NOT ACCEPTABLE

Line Total: **\$1,130.16**

Line Total: **\$108.60**

PO Total: **\$2,079.12**

CL M/S
Note: Pricing listed above is as per contract agreement between Dart Aerospace and the respective manufacturer.

No substitution or deviation without consent.

Certificate of Conformity or Material Certification required - YES NO
PST# 6122-5207